Jon P Wright

List of Publications by Year
in descending order

171 papers	6,394 citations	94269 37 h-index	74018 75 g-index
180 all docs	180 docs citations	180 times ranked	7198 citing authors

#	Article	IF	Citations
1	Nitridic Analogs of Micas AESi3P4N10(NH)2 (AE = Mg, Mg0.94Ca0.06, Ca, Sr). Angewandte Chemie, 2022, 134, e202114902.	1.6	4
2	Nitridic Analogs of Micas AESi₃P₄N₁₀(NH)₂ (AE=Mg, Mg_{0.94}Ca_{0.06}, Ca, Sr). Angewandte Chemie - International Edition, 2022, 61, e202114902.	7.2	11
3	Quantifying local rearrangements in three-dimensional granular materials: Rearrangement measures, correlations, and relationship to stresses. Physical Review E, 2022, 105, 014904.	0.8	10
4	Using Powder Diffraction Patterns to Calibrate the Module Geometry of a Pixel Detector. Crystals, 2022, 12, 255.	1.0	5
5	Multi-scale in situ mechanical investigation of the superelastic behavior of a Cuâ€“Alâ€“Be polycrystalline shape memory alloy. Acta Materialia, 2022, 235, 118107.	3.8	4
6	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. ACS Nano, 2021, 15, 2386-2398.	7.3	4
7	Formation and annihilation of stressed deformation twins in magnesium. Communications Materials, 2021, 2, .	2.9	12
8	Crystal structure determination of a lifelong biopersistent asbestos fibre using single-crystal synchrotron X-ray micro-diffraction. IUCrJ, 2021, 8, 76-86.	1.0	7
9	Texture Memory in Si-Mn and ODS Steels Observed In Situ by Pulsed Neutron and Synchrotron X-Ray Diffractions and Prediction by Double Kurdjumov-Sachs Relation: A Concept for Intense Variant Selection. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1368-1381.	1.1	3
10	Beam heating from a fourth-generation synchrotron source. Journal of Synchrotron Radiation, 2021, 28, 1377-1385.	1.0	7
11	Hexagonal Siâ^'Ge Class of Semiconducting Alloys Prepared by Using Pressure and Temperature. Chemistry - A European Journal, 2021, 27, 14217-14224.	1.7	3
12	Exploiting Confinement to Study the Crystallization Pathway of Calcium Sulfate. Advanced Functional Materials, 2021, 31, 2107312.	7.8	11
13	Non-destructive determination of phase, size, and strain of individual grains in polycrystalline photovoltaic materials. Journal of Alloys and Compounds, 2021, 887, 161364.	2.8	3
14	On the nucleation of deformation twins at the early stages of plasticity. Acta Materialia, 2020, 196, 733-746.	3.8	31
15	BaP₆N₁₀NH:Eu²⁺ as a Case Studyâ€“An Imidonitridophosphate Showing Luminescence. Chemistry - A European Journal, 2020, 26, 5010-5016.	1.7	7
16	In situ synchrotron analysis of phase transformation at high temperatures in ODS ferritic steel. Journal of Materials Science, 2020, 55, 5600-5612.	1.7	3
17	Electronic origin of negative thermal expansion in V2OPO4. Chemical Communications, 2020, 56, 6523-6526.	2.2	4
18	Nitridophosphateâ€Based Ultraâ€Narrowâ€Band Blueâ€Emitters: Luminescence Properties of AEP₈N₁₄:Eu²⁺ (AE=Ca, Sr, Ba). Chemistry - A European Journal, 2020, 26, 7292-7298.	1.7	24

#	Article	IF	Citations
19	New opportunities at the Materials Science Beamline at ESRF to exploit high energy nano-focus X-ray beams. Current Opinion in Solid State and Materials Science, 2020, 24, 100818.	5.6	25
20	Site-selective doping of ordered charge states in magnetite. Nature Communications, 2020, 11, 1671.	5.8	8
21	Reconstructing intragranular strain fields in polycrystalline materials from scanning 3DXRD data. Journal of Applied Crystallography, 2020, 53, 314-325.	1.9	36
22	High-Energy Synchrotron Radiation Research at the ESRF. Synchrotron Radiation News, 2020, 33, 5-10.	0.2	1
23	Co-emergence of magnetic order and structural fluctuations in magnetite. Nature Communications, 2019, 10, 2857.	5.8	43
24	Local elasticity and macroscopic plasticity in homogeneous and heterogeneous bulk metallic glasses. Applied Physics Letters, 2019, 115, 141901.	1.5	1
25	An Application of Multigrain Approaches to the Structural Solution of Grains from Polycrystalline Samples. Solid State Phenomena, 2019, 288, 119-123.	0.3	1
26	Scanning 3DXRD Measurement of Grain Growth, Stress, and Formation of Cu6Sn5 around a Tin Whisker during Heat Treatment. Materials, 2019, 12, 446.	1.3	38
27	Operando and Postreaction Diffraction Imaging of the Laâ€“Sr/CaO Catalyst in the Oxidative Coupling of Methane Reaction. Journal of Physical Chemistry C, 2019, 123, 1751-1760.	1.5	28
28	Cationic Pb₂ Dumbbells Stabilized in the Highly Covalent Lead Nitridosilicate Pb₂Si₅N₈. Angewandte Chemie - International Edition, 2019, 58, 1432-1436.	7.2	12
29	Depicting the crystal structure of fibrous ferrierite from British Columbia using a combined synchrotron techniques approach. Journal of Applied Crystallography, 2019, 52, 1397-1408.	1.9	7
30	High temperature investigation of SiO2-Al2O3-ZnO-Na2O glass for ceramic-glaze: inâ€situ/ex-situ synchrotron diffraction and conventional approaches. Ceramics International, 2018, 44, 6395-6401.	2.3	3
31	Strong grain neighbour effects in polycrystals. Nature Communications, 2018, 9, 171.	5.8	92
32	Effects of resolution in real and reciprocal spaces from a 2D detector at a high-energy synchrotron beamline. Powder Diffraction, 2018, 33, 11-20.	0.4	2
33	On the state of deformation in a polycrystalline material in three-dimension: Elastic strains, lattice rotations, and deformation mechanisms. International Journal of Plasticity, 2018, 106, 145-163.	4.1	22
34	Micromechanics of Granular Media Characterised Using X-Ray Tomography and 3DXRD. Trends in Mathematics, 2018, , 169-176.	0.1	2
35	X-ray diffraction and heterogeneous materials: An adaptive crystallography approach. Comptes Rendus Physique, 2018, 19, 553-560.	0.3	3
36	Revealing Operando Transformation Dynamics in Individual Li-ion Electrode Crystallites Using X-Ray Microbeam Diffraction. Frontiers in Energy Research, 2018, 6, .	1.2	7

#	Article	IF	Citations
37	RE4Ba2[Si12O2N16C3]:Eu2+ (RE = Lu, Y): Green-Yellow Emitting Oxonitridocarbidosilicates with a Highly Condensed Network Structure Unraveled through Synchrotron Microdiffraction. Inorganic Chemistry, 2018, 57, 13840-13846.	1.9	8
38	Synchrotron Nano-Diffraction Study of Thermally Treated Asbestos Tremolite from Val dâ€™Ala, Turin (Italy). Minerals (Basel, Switzerland), 2018, 8, 311.	0.8	5
39	Deciphering mineralogical changes and carbonation development during hydration and ageing of a consolidated ternary blended cement paste. IUCrJ, 2018, 5, 150-157.	1.0	11
40	Improving stability of organic devices: a time/space resolved structural monitoring approach applied to plasmonic photovoltaics. Solar Energy Materials and Solar Cells, 2017, 159, 617-624.	3.0	20
41	Planar Perovskite Solar Cells: Local Structure and Stability Issues. Solar Rrl, 2017, 1, 1700066.	3.1	10
42	Multi-scale mechanics of granular solids from grain-resolved X-ray measurements. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170491.	1.0	21
43	Structural modifications in sub-Tg annealed CuZr-based metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 245-252.	2.6	21
44	Force measurements in stiff, 3D, opaque granular materials. EPJ Web of Conferences, 2017, 140, 02006.	0.1	2
45	Grain interaction mechanisms leading to intragranular orientation spread in tensile deformed bulk grains of interstitial-free steel. International Journal of Plasticity, 2017, 88, 108-125.	4.1	32
46	Electromechanical Response of Polycrystalline Barium Titanate Resolved at the Grain Scale. Journal of the American Ceramic Society, 2017, 100, 393-402.	1.9	15
47	Ordering phenomena in minerals: the Verwey phase of natural magnetite. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1302-C1302.	0.0	0
48	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 877-884.	0.4	11
49	Heterogeneous grain-scale response in ferroic polycrystals under electric field. Scientific Reports, 2016, 6, 22820.	1.6	28
50	Grain-resolved analysis of localized deformation in nickel-titanium wire under tensile load. Science, 2016, 353, 559-562.	6.0	154
51	Operando Nanobeam Diffraction to Follow the Decomposition of Individual Li₂O₂ Grains in a Nonaqueous Liâ€“O₂ Battery. Journal of Physical Chemistry Letters, 2016, 7, 3388-3394.	2.1	14
52	Quantifying Interparticle Forces and Heterogeneity in 3D Granular Materials. Physical Review Letters, 2016, 117, 098005.	2.9	109
53	Solid solution along the synthetic LiAlSi₂O₆-LiFeSi₂O₆(spodumene-ferri-spodumene) join: A general picture of solid solutions, bond lengths, lattice strains, steric effects, symmetries, and chemical compositions of Li clinopyroxenes. American Mineralogist, 2016, 101, 2498-2513.	0.9	4
54	Probing structural chirality with high-energy synchrotron radiation. Journal of Applied Crystallography, 2016, 49, 918-922.	1.9	4

#	Article	IF	Citations
55	Revealing metallic ink in Herculaneum papyri. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3751-3754.	3.3	40
56	The Verwey structure of a natural magnetite. Chemical Communications, 2016, 52, 4864-4867.	2.2	25
57	Ordering phenomena in minerals: the Verwey phase of natural magnetite. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s63-s63.	0.0	0
58	Water-rock interactions in carbonaceous chondrites: a meso to nanoscale study of alteration processes in an anoxygenic environment. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s70-s70.	0.0	0
59	Three-dimensional experimental granular mechanics. Geotechnique Letters, 2015, 5, 236-242.	0.6	17
60	Human insulin polymorphism upon ligand binding and pH variation: the case of 4-ethylresorcinol. IUCrJ, 2015, 2, 534-544.	1.0	19
61	Discovery and Structure Determination of an Unusual Sulfide Telluride through an Effective Combination of TEM and Synchrotron Microdiffraction. Angewandte Chemie - International Edition, 2015, 54, 10020-10023.	7.2	30
62	Creating Reactivity with Unstable Endmembers using Pressure and Temperature: Synthesis of Bulk Cubic Mg_{0.4}Fe_{0.6}N. Angewandte Chemie - International Edition, 2015, 54, 15109-15112.	7.2	7
63	Optimizing shape uniformity and increasing structure heights of deep reactive ion etched silicon x-ray lenses. Journal of Micromechanics and Microengineering, 2015, 25, 125013.	1.5	8
64	Measurement of lattice rotations and internal stresses in over one hundred individual grains during a stress-induced martensitic transformation. MATEC Web of Conferences, 2015, 33, 02003.	0.1	2
65	Study of 3-D stress development in parent and twin pairs of a hexagonal close-packed polycrystal: Part I â€“ in-situ three-dimensional synchrotron X-ray diffraction measurement. Acta Materialia, 2015, 93, 246-255.	3.8	56
66	Study of 3-D stress development in parent and twin pairs of a hexagonal close-packed polycrystal: Part II â€“ crystal plasticity finite element modeling. Acta Materialia, 2015, 93, 235-245.	3.8	61
67	Stability enhancement of organic photovoltaic devices utilizing partially reduced graphene oxide as the hole transport layer: nanoscale insight into structural/interfacial properties and aging effects. RSC Advances, 2015, 5, 106930-106940.	1.7	15
68	Synthesis and high-resolution study distinguishing between very similar interstitial iron nitride structures. High Pressure Research, 2015, 35, 28-36.	0.4	6
69	Total scattering experiments on glass and crystalline materials at the ESRF on the ID11 Beamline. Powder Diffraction, 2015, 30, S2-S8.	0.4	13
70	The fast azimuthal integration Python library:pyFAI. Journal of Applied Crystallography, 2015, 48, 510-519.	1.9	518
71	Dithiophene-TTF Salts; New Ladder Structures and Spin-Ladder Behavior. Inorganic Chemistry, 2015, 54, 7000-7006.	1.9	8
72	Charge localization in the Verwey structure of magnetite. Physical Review B, 2015, 92, .	1.1	40

#	Article	IF	Citations
73	Novel crystalline phase and first-order phase transitions of human insulin complexed with two distinct phenol derivatives. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 819-828.	2.5	17
74	Quantitative grain-scale ferroic domain volume fractions and domain switching strains from three-dimensional X-ray diffraction data. Journal of Applied Crystallography, 2015, 48, 882-889.	1.9	15
75	Information on real-structure phenomena in metastable GeTe-rich germanium antimony tellurides (GeTe)nSb2Te3 (n â‰¥ 3) by semi-quantitative analysis of diffuse X-ray scattering. Zeitschrift Fur Kristallographie - Crystalline Materials, 2015, 230, .	0.4	9
76	Direct view on the phase evolution in individual LiFePO4 nanoparticles during Li-ion battery cycling. Nature Communications, 2015, 6, 8333.	5.8	121
77	Structure evolution of soft magnetic (Fe36Co36B19.2Si4.8Nb4)100â‹'Cu (x= 0 and 0.5) bulk glassy alloys. Acta Materialia, 2015, 95, 335-342.	3.8	21
78	Deformation-induced orientation spread in individual bulk grains of an interstitial-free steel. Acta Materialia, 2015, 85, 301-313.	3.8	50
79	Serial crystallography for the masses?. IUCrJ, 2015, 2, 3-4.	1.0	2
80	On the calibration of high-energy X-ray diffraction setups. I. Assessing tilt and spatial distortion of the area detector. Journal of Applied Crystallography, 2014, 47, 1042-1053.	1.9	22
81	Impurity precipitation in atomized particles evidenced by nano x-ray diffraction computed tomography. Applied Physics Letters, 2014, 105, .	1.5	29
82	Charge-density analysis using multipolar atom and spherical charge models: 2-methyl-1,3-cyclopentanedione, a compound displaying a resonance-assisted hydrogen bond. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 197-211.	0.5	12
83	Rate-Induced Solubility and Suppression of the First-Order Phase Transition in Olivine LiFePO₄. Nano Letters, 2014, 14, 2279-2285.	4.5	148
84	Dense SixGe1â€“x (0 < x < 1) Materials Landscape Using Extreme Conditions and Precession Electron Diffraction. Inorganic Chemistry, 2014, 53, 5656-5662.	1.9	11
85	Photostrictive/Piezomagnetic Coreâ€“Shell Particles Based on Prussian Blue Analogues: Evidence for Confinement Effects?. Journal of Physical Chemistry C, 2014, 118, 13186-13195.	1.5	40
86	Mechanical stability of individual austenite grains in TRIP steel studied by synchrotron X-ray diffraction during tensile loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 280-287.	2.6	48
87	Comparison between a near-field and a far-field indexing approach for characterization of a polycrystalline sample volume containing more than 1500 grains. Journal of Applied Crystallography, 2014, 47, 1402-1416.	1.9	17
88	High-resolution X-ray diffraction investigation on the evolution of the substructure of individual austenite grains in TRIP steels during tensile deformation. Journal of Applied Crystallography, 2014, 47, 965-973.	1.9	3
89	Spatiallyâ€Resolved Inâ€Situ Structural Study of Organic Electronic Devices with Nanoscale Resolution: The Plasmonic Photovoltaic Case Study. Advanced Materials, 2013, 25, 4760-4765.	11.1	31
90	FabIO: easy access to two-dimensional X-ray detector images in Python. Journal of Applied Crystallography, 2013, 46, 537-539.	1.9	75

#	Article	IF	Citations
91	The verwey phase of magnetite â€" a long-running mystery in magnetism. Journal of the Korean Physical Society, 2013, 62, 1372-1375.	0.3	7
92	High-resolution powder X-ray data reveal the T₆hexameric form of bovine insulin. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 978-990.	2.5	20
93	Residual stress relief due to fatigue in tetragonal lead zirconate titanate ceramics. Journal of Applied Physics, 2013, 114, 024103.	1.1	9
94	Pressure-induced structural and magnetic phase transitions in ordered and disordered equiatomic FeCo. Physical Review B, 2013, 88, .	1.1	7
95	Multi length scale characterization of austenite in TRIP steels using high-energy X-ray diffraction. Powder Diffraction, 2013, 28, 77-80.	0.4	3
96	PyFAI: a Python library for high performance azimuthal integration on GPU. Powder Diffraction, 2013, 28, S339-S350.	0.4	96
97	Progressive melting in confined one-dimensional C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>chains. Physical Review B, 2012, 86, .	1.1	8
98	Residual and bending stress measurements by X-ray diffraction and synchrotron diffraction analysis in silicon solar cells. , 2012, , .		3
99	The thermodynamic effect of nonhydrostatic stress on the Verwey transition. Earth and Planetary Science Letters, 2012, 319-320, 207-217.	1.8	22
100	Structural studies of human insulin cocrystallized with phenol or resorcinolviapowder diffraction. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1632-1641.	2.5	22
101	Electronic orders in the Verwey structure of magnetite. Physical Review B, 2012, 85, .	1.1	59
102	Multigrain crystallography. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 63-78.	1.1	95
103	Charge order and three-site distortions in the Verwey structure of magnetite. Nature, 2012, 481, 173-176.	13.7	424
104	High-energy X-ray diffraction study on the temperature-dependent mechanical stability of retained austenite in low-alloyed TRIP steels. Acta Materialia, 2012, 60, 565-577.	3.8	175
105	Proteins and Powders: Technical Developments. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 125-135.	0.2	0
106	Advanced gas hydrate studies at ambient conditions using suspended droplets. Chemical Communications, 2011, 47, 9369.	2.2	12
107	The texture of Nd oxide grains in Nd-Fe-B sintered magnets studied by synchrotron radiation. Journal of Applied Physics, 2011, 110, 026103.	1.1	6
108	Grain-resolved elastic strains in deformed copper measured by three-dimensional X-ray diffraction. Materials Characterization, 2011, 62, 651-660.	1.9	60

#	Article	IF	Citations
109	Can intergranular force transmission be identified in sand?. Granular Matter, 2011, 13, 251-254.	1.1	51
110	In situ synchrotron analysis of lattice rotations in individual grains during stress-induced martensitic transformations in a polycrystalline CuAlBe shape memory alloy. Acta Materialia, 2011, 59, 3636-3645.	3.8	22
111	Simultaneous X-ray diffraction from multiple single crystals of macromolecules. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 608-618.	2.5	13
112	X-ray transfocators: focusing devices based on compound refractive lenses. Journal of Synchrotron Radiation, 2011, 18, 125-133.	1.0	147
113	The Structure of Water in pâ€Sulfonatocalix[4]arene. Chemistry - A European Journal, 2011, 17, 10259-10271.	1.7	46
114	In situ synchrotron study on the interplay between martensite formation, texture evolution and load partitioning in low-alloyed TRIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6407-6416.	2.6	68
115	Design and Technical Aspects of a New in Vacuum Transfocator at ESRF Beamline ID11. , 2010, , .		2
116	Time-dependent analysis of K2PtBr6binding to lysozyme studied by protein powder and single crystal X-ray analysis. Zeitschrift FÃ¼r Kristallographie, 2010, 225, 570-575.	1.1	11
117	In-situ observation of the nucleation kinetics and the mechanism of grain refinement in Alâ€“Si alloys (Part I). Materials Letters, 2010, 64, 1016-1018.	1.3	13
118	Determining grain resolved stresses in polycrystalline materials using three-dimensional X-ray diffraction. Journal of Applied Crystallography, 2010, 43, 539-549.	1.9	175
119	Polymorphism of microcrystalline urate oxidase fromAspergillus flavus. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 539-548.	2.5	23
120	Features of the secondary structure of a protein molecule from powder diffraction data. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 756-761.	2.5	10
121	Preliminary insights into the non structural protein 3 macro domain of the Mayaro virus by powder diffraction. Zeitschrift FÃ¼r Kristallographie, 2010, 225, .	1.1	8
122	Alignment of Plate-Like Particles in a Colloidal Dispersion under Flow in a Uniform Pipe Studied by High-Energy X-ray Diffraction. Langmuir, 2010, 26, 18701-18709.	1.6	15
123	High energy X-ray transfocator based on Al parabolic refractive lenses for focusing and collimation. Journal of Physics: Conference Series, 2009, 186, 012073.	0.3	51
124	Friedel-pair based indexing method for characterization of single grains with hard X-rays. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 64-68.	2.6	33
125	The effect of aluminium and phosphorus on the stability of individual austenite grains in TRIP steels. Acta Materialia, 2009, 57, 533-543.	3.8	80
126	Direct Synthesis of Cubic ZrMo₂O₈ Followed by Ultrafast In Situ Powder Diffraction. Journal of the American Chemical Society, 2009, 131, 17560-17562.	6.6	17

#	Article	IF	Citations
127	Time-resolved binding of K2PtBr6to lysozyme by protein powder and single-crystal X-ray. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s80-s81.	0.3	0
128	Successful cryocooling of protein microcrystalline samples for powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s320-s321.	0.3	1
129	High-throughput phase diagram mapping of urate oxidaseviapowder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s321-s322.	0.3	0
130	Powder crystallography on macromolecules. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, 169-180.	0.3	63
131	Molecular envelopes derived from protein powder diffraction data. Journal of Applied Crystallography, 2008, 41, 329-339.	1.9	12
132	Imaging of interstitial atoms in Ga_{1â^'x}Mn_xAs layers by means of X-ray diffuse scattering. Journal of Applied Crystallography, 2008, 41, 544-547.	1.9	1
133	Experimental verification of dynamical diffraction focusing by a bent crystal wedge in Laue geometry. Journal of Applied Crystallography, 2008, 41, 695-700.	1.9	7
134	Domain switching in rhombohedral PZT ceramics under electrical and mechanical loading. Materials Science and Technology, 2008, 24, 927-933.	0.8	11
135	The low-temperature structure of nopinone. Zeitschrift FÃ¼r Kristallographie, 2008, 223, 602-604.	1.1	4
136	Second SH3 Domain of Ponsin Solved from Powder Diffraction. Journal of the American Chemical Society, 2007, 129, 11865-11871.	6.6	42
137	High-Temperature Processing of Ba₃ZnTa₂O₉:â€‰ an In situ Study Using Synchrotron X-ray Powder Diffraction. Chemistry of Materials, 2007, 19, 4731-4740.	3.2	15
138	Cation ordering/disordering kinetics in Ba3CoNb2O9: An in situ study using synchrotron x-ray powder diffraction. Applied Physics Letters, 2007, 91, 222901.	1.5	15
139	Characterization of individual retained austenite grains and their stability in low-alloyed TRIP steels. Acta Materialia, 2007, 55, 6713-6723.	3.8	226
140	Successful protein cryocooling for powder diffraction. Journal of Applied Crystallography, 2007, 40, 121-124.	1.9	11
141	Martensitic transformation of individual grains in low-alloyed TRIP steels. Scripta Materialia, 2007, 56, 421-424.	2.6	245
142	Powder diffraction studies on proteins: An overview of data collection approaches. Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 1-13.	0.5	16
143	Likelihood methods with protein powder diffraction data. Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 27-32.	0.5	6
144	Exploiting X-ray induced anisotropic lattice changes to improve intensity extraction in protein powder diffraction: Application to heavy atom detection. Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 39-44.	0.5	8

#	Article	IF	Citations
145	Molecular envelopes from protein powder diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s76-s76.	0.3	0
146	Likelihood methods with protein powder diffraction data. Zeitschrift FÃ¼r Kristallographie, 2007, 2007, 27-32.	1.1	0
147	Exploiting X-ray induced anisotropic lattice changes to improve intensity extraction in protein powder diffraction: Application to heavy atom detection. Zeitschrift FÃ¼r Kristallographie, 2007, 2007, 39-44.	1.1	0
148	Structures of (S)-(â^')-4-oxo-2-azetidinecarboxylic acid and 3-azetidinecarboxylic acid from powder synchrotron diffraction data. Acta Crystallographica Section B: Structural Science, 2006, 62, 606-611.	1.8	1
149	Location of Mn sites in ferromagnetic Ga1â^'xMnxAs studied by means of X-ray diffuse scattering holography. Journal of Applied Crystallography, 2006, 39, 735-738.	1.9	12
150	In situ synchrotron X-ray diffraction of ferroelastic La0.8Ca0.2CoO3 ceramics during uniaxial compression. Acta Materialia, 2006, 54, 2615-2624.	3.8	24
151	Structural, magnetic, and spectroscopic studies of YAgSn, TmAgSn, and LuAgSn. Journal of Solid State Chemistry, 2006, 179, 2376-2385.	1.4	33
152	Extracting structural information from protein powder diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, s232-s232.	0.3	0
153	Thermal stability of retained austenite in TRIP steels studied by synchrotron X-ray diffraction during cooling. Acta Materialia, 2005, 53, 5439-5447.	3.8	460
154	Synchrotron X-ray powder diffraction study of hexagonal turkey egg-white lysozyme. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 423-432.	2.5	27
155	High-throughput phase-diagram mappingviapowder diffraction: a case study of HEWLversuspH. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1612-1625.	2.5	31
156	Crystallographic Phase Composition and Structural Analysis of Ti-Ni-Fe Shape Memory Alloy by Synchrotron Diffraction. Solid State Phenomena, 2005, 105, 139-144.	0.3	3
157	Resonant x-ray diffraction study of the charge ordering in magnetite. Journal of Physics Condensed Matter, 2005, 17, 7633-7642.	0.7	42
158	Intermetallic phase detection in lead-free solders using synchrotron x-ray diffraction. Journal of Electronic Materials, 2004, 33, 1524-1529.	1.0	9
159	The Crystal Structure of Ba3Cu2Al2F16: A Relative of Ba4Cu2Al3F21.. ChemInform, 2004, 35, no.	0.1	0
160	Effect of iron on delithiation in LixCo1â^'yFeyO2. Part 1: in-situ electrochemical and X-ray diffraction study. Journal of Materials Chemistry, 2004, 14, 94-101.	6.7	6
161	Extraction and use of correlated integrated intensities with powder diffraction data. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 791-802.	0.4	29
162	Solving Larger Molecular Crystal Structures from Powder Diffraction Data by Exploiting Anisotropic Thermal Expansion. Angewandte Chemie - International Edition, 2003, 42, 2029-2032.	7.2	40

#	Article	IF	Citations
163	Structure of lithium benzilate hemihydrate solved by simulated annealing and difference Fourier synthesis from powder data. Acta Crystallographica Section B: Structural Science, 2003, 59, 378-383.	1.8	12
164	The Crystal Structure of Ba3Cu2Al2F16: a Relative of Ba4Cu2Al3F21. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2003, 629, 1960-1964.	0.6	8
165	Charge ordered structure of magnetiteFe3O4below the Verwey transition. Physical Review B, 2002, 66, .	1.1	303
166	Long Range Charge Ordering in Magnetite Below the Verwey Transition. Physical Review Letters, 2001, 87, 266401.	2.9	295
167	Powder Diffraction Refinements of the Structure of Magnetite (Fe3O4) Below the Verwey Transition. Materials Research Society Symposia Proceedings, 2000, 658, 261.	0.1	1
168	Variable temperature powder neutron diffraction study of the Verwey transition in magnetite Fe3O4. Solid State Sciences, 2000, 2, 747-753.	1.5	34
169	High-resolution powder neutron diffraction study of helimagnetic order inCrP1â^'xVxO4solid solutions. Physical Review B, 2000, 62, 992-997.	1.1	13
170	Partial frustration of magnetic order in synthetic angelellite, Fe4As2O11â€Šâ€. Dalton Transactions RSC, 2000, , 3663-3668.	2.3	7
171	Helimagnetic order in ferric arsenate, FeAsO4. Journal of Physics Condensed Matter, 1999, 11, 1473-1478.	0.7	4